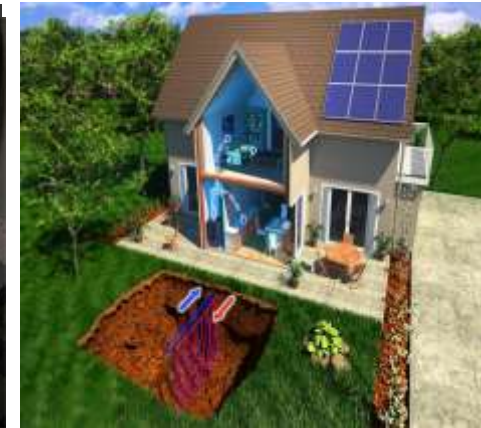




*NASEO-NARUC Grid-
Interactive Efficient
Buildings Working
Group: Goals and
Engagement*



National Association of
State Energy Officials



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NASEO Energy Policy Outlook Conference
February 5, 2019

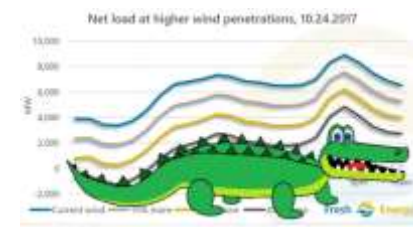
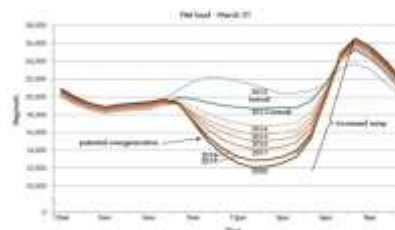
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Overview

- Context
- Purpose and benefits
- Activities
 - NASEO-NARUC Grid-Interactive Efficient Buildings (GEB) State Working Group
 - Resource development and offerings
- Complementary activities
 - Utility GEB working group
 - NARUC-NASEO Comprehensive Electricity Planning Task Force
- Calendar/Events and Contacts

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- Advancing technologies open opportunities:
 - More impactful and flexible load management
 - Reduce peak power demand
 - Make buildings more flexible, or even dispatchable, as demand-side resources and virtual energy storage
 - Improve variable (both distributed and grid-side) and distributed energy resource integration
 - Transactive energy
 - Enhance energy efficiency
 - Enhance environmental performance.
 - Resilience benefits (to both grid and buildings/facilities)
 - Resource optimization (building/facility, distribution, grid) and cost savings (to businesses, households, grid)



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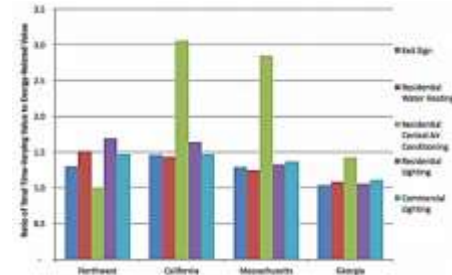


- How can we optimize facility interactions with the grid?
- How can states fashion policies, programs, and regulations to advance such optimization through GEB?

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■ States would benefit from:

- Learning about GEB technologies, applications, and their scale and scope
- Identifying private and public sector expertise and resources
- Expressing state priorities, concerns, interests
- Identifying opportunities and impediments
 - Non-technical and technical
- Informing federal, private, and state RD&D decisions
- Recognizing temporal and locational value of energy efficiency and other distributed resources
- Clarifying electric system (consumer and grid-facing) requirements
- Enhancing energy system reliability, resilience, and affordability



- **Inform state planning, policy, regulations, and programs**
 - Advance potential roadmaps and pilots

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- NASEO-NARUC GEB State Working Group
 - SEOs, PUCs, DOE reps and invited experts
 - Inform states on GEB research, technology, implementation
 - Identify state contexts that foster or hinder GEB
 - Market, economic, policy, regulatory
 - State feedback on priorities, interests, concerns
 - Identify information needs, gaps
 - Inform RD&D priorities, potential pilots
- Engagement/exchange
 - Periodic stakeholder engagement calls, webinars
 - Starting 1st Q 2019
 - Plan Fall 2019 workshop



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- Resource development and offerings
 - Briefing papers planned
 - Oriented toward SEOs and PUCs
 - One focused on residential GEB
 - Non-technical and technical considerations
 - Scoping model GEB road mapping kit
 - Help states to explore GEB in their state contexts
 - *Scoping potential state pilots*
 - *Inform development of pilots to explore and address priority issues*
 - Work with states engaged in distribution system planning

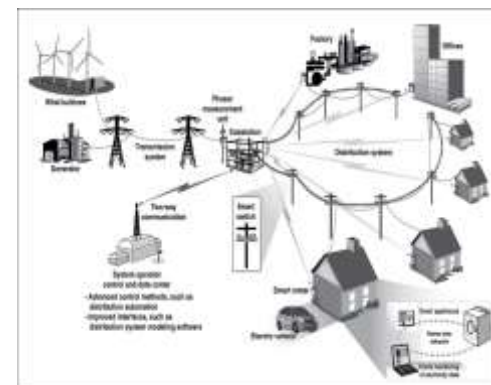


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■ For GEB Working Group states (~10):

Potential National Laboratory help to scope pilots

- Outline elements, questions, considerations for GEB pilot projects and demonstrations
 - Support state convenings, research, technical consultations
 - Identify policy and regulatory options and opportunities to facilitate GEB pilots/demonstration
-
- May lead to policy and regulatory pilots
 - May lead to physical pilots/demonstrations



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- Complementary Utility GEB Working Group
 - Managed by the American Council for an Energy-Efficient Economy (ACEEE)
 - Peer network of utility energy efficiency, demand response, grid mod staff
 - Identify utility activities and regulatory issues that foster or hinder GEB integration
 - Inform RD&D and potential pilot projects and programs
 - Utility engagement webinar series
 - Opportunities for technical assistance by request from participating utilities



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NARUC-NASEO Task Force on Comprehensive Electricity Planning

- NARUC-NASEO partnership
- States (PUCs+SEOs) forum to better align distribution and resource planning
 - 12-15 states over two years, four workshops
 - Information exchange, webinars, etc.
 - Development of tools, roadmaps, action plans
 - DOE, National Lab support
 - Stakeholder engagement
- State “Letters of Intent” were due January 18, 2019
- States to be announced at this NASEO Conference
- Planned need assessment interviews

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Calendar

- **TODAY** February 5, 2019: NASEO Energy Policy Outlook Conference 2:45-4:15pm GEB State Working Group session
- February 11, 2019: NARUC Annual Meeting
 - 2:45pm Energy Resource and the Environment Committee business meeting - GEB State Working Group discussion
- **State expression of interest due February 21**
- Quarterly GEB key stakeholder engagement calls/webinars
 - First TBD by March 31, 2019
- Quarterly GEB state-DOE-industry calls/webinars
 - First TBD by March 31, 2019
- Workshop: Fall 2019
 - likely at NASEO Annual Meeting, Sept. 15-18, Manhattan Beach, CA

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■ State expression of interest due February 21

- Letter or e-mail from SEO and/or PUC
 - *Please talk to each other!* (but don't need both to sign on)
- Express desire to join the working group
 - Indicate interests, concerns
 - What your state hopes to gain from and to contribute to the working group
 - Note pertinent efforts underway or contemplated
 - Projects, pilots, demonstrations
 - Policy or regulatory actions or considerations
 - Studies, roadmaps, etc.
 - Identify point-of-contact

+ Grid-Interactive Efficient Buildings:

Facilitating State-Supported Research Coordination and Analysis,
and Development of State-Led Pilots

Resources

- DOE GEB page <https://www.energy.gov/eere/buildings/grid-interactive-efficient-buildings>
- 2018 NASEO Annual Meeting (Detroit, MI)
<https://annualmeeting.naseo.org/agenda>
 - [Grid-Interactive Efficient Buildings: Energy Efficiency & Grid Optimization](#) - David Nemtzow (U.S. DOE)
 - [What's Next for Energy Efficiency: Grid Interaction](#) - Chris Baker (The Weidt Group)
 - [Grid Interactive Efficient Building](#) - Jan Berman (PG&E)
 - [Smart Neighborhood](#) - James Leverette (Southern Co.)

+ Grid-Interactive Efficient Buildings: Facilitating State-Supported Research Coordination and Analysis, and Development of State-Led Pilots

Questions/inquiries:

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